NON-SHRINK GENERAL PURPOSE GROUT
PRODUCT No. 1585-01

PRODUCT DESCRIPTION
QUIKRETE® Non-Shrink General Purpose Grout is a high strength, non-metallic, Portland cement based material with expansive additives designed for grouting steel columns, bearing plates, pre-cast concrete, and anchoring applications.

PRODUCT USE
Typical applications for QUIKRETE® Non-Shrink General Purpose Grout include grouting of:
- Steel columns
- Bearing plates
- Precast concrete
- Keyway Grouting
- Other anchoring or void filling conditions that require high strength

The non-shrink characteristics of Non-Shrink General Purpose Grout make it stable and capable of handling high load transfers.

NOTE: This product is not for use in precision grouting of machinery. (For precision grouting of machinery use QUIKRETE Non-Shrink Precision Grout No. 1585-00)

SIZES
- QUIKRETE® Non-Shrink General Purpose Grout - 50 lb (22.6 kg) bags

YIELD
- Each 50 lb (22.6 kg) bag will yield 0.45 ft³ (12.7 L) at flowable consistency

TECHNICAL DATA
APPLICABLE STANDARDS
- ASTM C827 Standard Test Method for Change in Height at Early Ages of Cylindrical Specimens of Cementitious Mixtures
- ASTM C939 Standard Test Method for Flow of Grout for Preplaced-Aggregate Concrete (Flow Cone Method)

- U.S. Army Corps of Engineers (USACE) - CRD 621
- ACI 305R Guide to Hot Weather Concreting
- ACI 306R Guide to Cold Weather Concreting
- ACI 310.2R Guide for Selecting and Specifying Materials for Repair of Concrete Surfaces

PHYSICAL/CHEMICAL PROPERTIES
QUIKRETE® Non-Shrink General Purpose Grout complies with the physical requirements of ASTM C1107 and CRD 621 when tested at 72 °F (22 °C).

INSTALLATION
SURFACE PREPARATION
The appropriate personal protective equipment should be worn. All grouting surfaces should be clean and free of foreign substances including corrosion, if present on steel. Remove all spalled areas and areas of unsound concrete. Preparation work done on the grouting surfaces should be completed by high pressure water blast, breaker, hammer, or other appropriate mechanical means to obtain a properly prepared surface. Saturate repair area with clean water before grouting to ensure SSD condition. No standing water should be left in the repair area. Refer to current ICRI Guideline 310.2R for additional surface preparation information.

MIXING
WEAR IMPERVIOUS GLOVES, such as nitrile when handling product. QUIKRETE® Non-Shrink General Purpose Grout should be mechanically mixed for a minimum of 5 minutes. Add only enough water to achieve the flow required for the application. Place the grout quickly and continuously using proper consolidation techniques when possible (i.e. light rodding, vibrating, tamping, etc.) to eliminate air bubbles.

CURING
A damp cure of at least 3 days is necessary to control the non-shrink characteristics and maintain strength levels.
**PRECAUTIONS**
- Additions of cement or other materials will eliminate the designed product qualities
- Water quantities may be affected by temperature, mixing method and batch size
- QUIKRETE® Non-Shrink General Purpose Grout should not be re-tempered
- Mix no more grout than can be placed in 30 minutes
- Grout temperature should be maintained from 50 to 90 °F (10 to 32 °C)
- Follow ACI 305R when using product in hot weather
- Follow ACI 306R when using product in cold weather
- Use a consistent water temperature, when mixing multiple batches, to prevent performance fluctuations

**TABLE 1 TYPICAL WATER DEMAND PER 50 lb (22.6 kg) BAG**

<table>
<thead>
<tr>
<th>Consistency</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plastic</td>
<td>4-1/2 qt (4.3 L)</td>
</tr>
<tr>
<td>Flowable</td>
<td>5 qt (4.7 L)</td>
</tr>
<tr>
<td>Fluid</td>
<td>5-1/2 qt (5.2 L)</td>
</tr>
</tbody>
</table>

**WARRANTY**

**NOTICE:** Obtain the applicable [LIMITED WARRANTY](https://www.quikrete.com/product-warranty) at [www.quikrete.com/product-warranty](https://www.quikrete.com/product-warranty) or send a written request to The Quikrete Companies, LLC, Five Concourse Parkway, Atlanta, GA 30328, USA. Manufactured by or under the authority of The Quikrete Companies, LLC. © 2020 Quikrete International, Inc.

**TABLE 2 TYPICAL PHYSICAL PROPERTIES AT 72 °F (22 °C)**

<table>
<thead>
<tr>
<th>Consistency</th>
<th>Plastic</th>
<th>Flowable</th>
<th>Fluid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressive Strength, ASTM C109 (Modified)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Age</td>
<td>PSI (MPa)</td>
<td>PSI (MPa)</td>
<td>PSI (MPa)</td>
</tr>
<tr>
<td>1 day</td>
<td>3,000 (20.6)</td>
<td>2,500 (17.2)</td>
<td>2,000 (13.7)</td>
</tr>
<tr>
<td>3 days</td>
<td>5,500 (37.9)</td>
<td>4,500 (31.0)</td>
<td>3,500 (24.1)</td>
</tr>
<tr>
<td>7 days</td>
<td>7,000 (48.2)</td>
<td>6,500 (44.8)</td>
<td>5,500 (37.9)</td>
</tr>
<tr>
<td>28 days</td>
<td>9,000 (62.0)</td>
<td>8,000 (55.1)</td>
<td>7,000 (48.2)</td>
</tr>
<tr>
<td>Height change, ASTM C1090</td>
<td>@ 1, 3, 7 &amp; 28 days</td>
<td>0 to 0.2%</td>
<td>0 to 0.2%</td>
</tr>
<tr>
<td>Height change, ASTM C827</td>
<td>0%</td>
<td>0.3%</td>
<td>0.8%</td>
</tr>
</tbody>
</table>

* Refer to [www.quikrete.com](https://www.quikrete.com) for the most current technical data and SDS

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